Clause-by-Clause Comment - Cover sheet

Customer:		ALSTOM	
Project name:		KUNDENSPEZIFISCHE DOKUMENTE	
Voith project ID:		intern	
Specification title:		Alstom Standard for Railway Applications: Assemblies and Parts Criticality Management	
Specification file name:		DTRF150212_F_EN.pdf	
Specification revision:		F	
Specification date:		6/26/2022	
Main responsible for this CbC comment at Voith Turbo:			
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Revision of this CbC:		00	
	Date:	11.04.2024 11:45:46	
History of revisions of this CbC-document:			
Revision	Date	Reason for change	Description of change
00			First issue

Clause-by-Clause Comment

Revision:	00			Project name:	KUNDENSPEZIFISCHE DOKUMENTE		SAP-ID:	intern		
Date:	11.04.2024 11:45:46	Original document title:					Revision:	F		
		Alstom Standard for Railway Applications: Assemblies and Parts Criticality Management					Date:	6/26/2022		

Clause	Clause title	We comply	We comply, but	We do not comply	Noted	Not applicable	Clarification necessary	Comment Voith	VT-internal note: commented by VT department	Comment Customer	Agreed and final comment (only necessary if a "Comment Customer" is given)
1	PURPOSE				X						
2	NORMATIVE REFERENCES	-	-	-	-	-	-				
2.1	STANDARD REFERENCES				X						
2.2	ALSTOM STANDARD REFERENCES				X						
3	TERMS AND DEFINITIONS	-	-	-	-	-	-				
3.1	SAFETY LEVEL		X					Risk classes for bolted connections according to DIN25201-1. Risk classes for bonded connections according to DIN 6701-3. Considering welding - safety classification accoring EN15085.			
3.2	SRIL		X					Every bolted connection will get a risk class according to DIN25201-1. This risk class will be mentioned in the drawing. SRIL will be provided as well known document from Voith with identification of safety relevant parts only. Marking only according to DIN25201-7.			
3.3	SAFETY LOGO		X					Marking of risk class H bolted connections only according to DIN25201-7. Risk class will be mentioned in every assembly drawing and has impact on claculation, documentation, assembly, quality control and maintenance.			
3.4	REDUNDANCY AND FALL ARRESTER		X					Generally agree, but Voith works according to internal work instructions about backup systems. Deviations may happed in cases of standardized interfaces, e.g. coupler to vehicle conection. See separate CbC to refered DTRFs.			
3.5	STACKED ASSEMBLIES	X									
4	PROCESS OVERVIEW		X					Generally agree, but Voith works according to internal work instructions about declassification considering similar logic. See separate CbC to refered DTRFs. Process roles according to internal hierarchie.			

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5	DESIGN CONCEPTS AND SAFETY LEVELS IDENTIFICATION FOR FALL OF PARTS OR COLLISION HAZARDS				X			See separate CbC to refered DTRFs.			
5.1	CAR BODY SHELL					X					
5.2	ELECTRICAL CUBICLE FRAME					X					
5.3	EQUIPMENT		X					If fasteners for coupler to carbody connections will be provided from Voith, Voith prefer to use standard fasterners acc. ISO4014/4017/7040 and will also provide bolt calculation.			
5.4	CABLING AND PIPING				X						
6	PROJECT DELIVERABLES	-	-	-	-	-	-				
6.1	DESIGN DELIVERABLES		X					Every bolted connection will get a risk class according to DIN25201-1. This risk class will be mentioned in the drawing. Considering bonding - safety clas according to DIN6701 (EN17460). Identification / documentation accoring in drawing according to Voith Standard. Considering welding - Class of testing, classification level, performance class and identification in drawing accoring EN15085.			
6.2	ENGINEERING JUSTIFICATION FILE		X					Documentation, check and release of bolt calculations and reports according to Voith data system inSTEP. Documentation according to internal guidelines.			
6.3	MANUFACTURING AND MAINTENANCE JUSTIFICATION FILE		X					Regarding manufacturing see CbC to refered DTRFs. Regarding maintenance see user manual.			
7	EXPORTED CONSTRAINTS	-	-	-	-	-	-				
7.1	DESIGN AND MANUFACTURING BY ALSTOM		X					See separate CbC to refered DTRFs.			

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7.2	EXPORTED CONSTRAINTS FOR SUPPLIERS		X					Supplier deliveries are standard as in previous projects - validation plan and all included test and calculation reports, RAMS documentation, bolt calculations. FMEA can be shown during FAI. ~~See separate CbC to refered DTRFs.~~			
8	EXECUTIVE SUMMARY	-	-	-	-	-	-				
8.1	PROCESS SUMMARY				X						
8.2	ITEMS TO CHECK				X						
9	APPENDICES	-	-	-	-	-	-				
9.1	DIRECT MOUNTING REFERENCES				X						
9.2	EXAMPLE OF “POSITIVE SUPPORT” EQUIPMENT MOUNTING				X						
9,3	EXAMPLE OF ANTI-FALL SYSTEM				X						

Clause-by-Clause Comment - Definitions

We comply:	Clause is applicable to Voith's scope of supply and will be met
We comply, but:	Clause is applicable to Voth's scope of supply but will only be met partially, see “Comment”
Noted:	Clause has been noted, but does not require a specific action by Voith
We do not comply:	Clause is applicable to Voith's scope of supply but will **not** be met
Not applicable:	Clause is **not** applicable to Voith's scope of supply
Clarification necessary	Requirement is unclear and needs to be clarified between Voith and customer